

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of

Richard Hirschman et al.

Original Patent No.: 5,543,864

Issued: August 6, 1996

For: IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO  
EYEGLASS TEMPLES

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Assistant Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

**COMBINED DECLARATION AND POWER OF  
ATTORNEY FOR REISSUE PATENT APPLICATION**

As the below named inventors, we hereby declare our residence, post address and citizenship are as stated below next to our names that we verily believe that we are the original, first and joint inventors of the subject matter which is claimed in Letters Patent 5,543,864 ("the Original Patent") issued August 6, 1996, and for which a reissue application is sought on the invention entitled: IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO EYEGLASS TEMPLES the specification of which is attached hereto.

We are not aware and do not believe that the above-identified invention was ever known, used, offered for sale or sold in the United States of America before our invention thereof.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with title 37 CFR §1.56.

We verily believe the Original Patent is partly inoperative by reason of our claiming less than we had a right to claim through error and without any deceptive intent.

The specific errors relied upon are:

1. that the limitations of Claim 1 may unnecessarily require the insertion of a pin into the side shield;
2. that the limitations of Claim 1 may unnecessarily require a member with a slot formed therein; and
3. that the limitations of Claim 5 may unnecessarily require that a pin be adapted to be inserted into the side shield.

Claims 20-40 are being introduced to broaden the coverage of the Original Patent and correct the errors enumerated above. New independent Claim 20 is directed to a method of attaching a side shield to a temple of an eyeglass frame and dependent Claims 21-22 further define the method of Claim 20. New independent Claim 23 is also directed to a method of attaching a side shield to a temple of an eyeglass frame and dependent claims 24-26 further define the method of claim 23. New independent Claim 27 is directed to a kit for attaching a safety shield to a temple of an eyeglass frame. New independent claim 28 is directed to a kit for attaching a safety shield to a temple of an eyeglass frame and dependent claims 29-40 further define the kit of claim 28.

The errors arose at the time the application was prepared and during prosecution of the application. The errors arose as an oversight in not recognizing that broader coverage could have been obtained. The errors arose without any deceptive intent.

The errors did not become apparent until after a review of the Original Patent was undertaken, which review occurred after issuance of the Original Patent and during discussions regarding a new line of side shields then being introduced by a competitor of the owner of the Original Patent.

Having realized our error, we are proceeding with due diligence to correct the insufficiency which renders the Original Patent partly inoperative by applying for this reissue patent embracing the original disclosure, drawings and claims and additional Claims 20-40.

An Order For A Title Report, an Offer To Surrender Original Patent and an Assent Of The Assignee are submitted concurrently herewith as required in Reissue Applications.

We hereby appoint Ostrolenk, Faber, Gerb & Soffen and members of the Firm, Marvin C. Soffen, Reg. No. 17,542; Samuel H. Weiner, Reg. No. 18,510; Jerome M. Berliner, Reg. No. 18,653; Robert C. Faber, Reg. No. 24,322; Edward A. Meilman, Reg. No. 24,735; Stanley H. Lieberstein, Reg. No. 22,400; Steven I. Weisburd, Reg. No. 27,409; Max Moskowitz, Reg. No. 30,576; Stephen A. Soffen, Reg. No. 31,063; James A. Finder, Reg. No. 30,173; William O. Gray, III, Reg. No. 30,944; Louis C. Dujmich, Reg. No. 30,625; Douglas A. Miro, Reg. No. 31,643, as attorneys with full power of substitution and revocation to prosecute this application, to transact all business in the Patent and Trademark Office connected therewith and to receive all correspondence.

Send Correspondence To:

OSTROLENK, FABER, GERB & SOFFEN, LLP  
1180 Avenue of the Americas  
New York, NY 10036

Direct Telephone Calls To:

(212) 382-0700

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the

validity of the application or any patent issued thereon.

Date: December 23, 1996

R. Chul Shin  
Richard Hirschman 1-00

United States  
Country of Citizenship

164 Deepdale Parkway  
Albertson, New York 11507  
Post of Address

Albertson, New York  
Residence

  
CWS   
Chul W. Shin 2-00

Korea  
Country of Citizenship

c/o Fashionline Corporation  
973-2 Yang Duck-Dong, Masan, Korea  
Post of Address

  
Masan, Korea  
Residence



01/09/97

P/410-63

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of

Richard Hirschman et al.

Date: January 9, 1997

Reissue of U.S. Patent No.: 5,543,864

Patented: August 6, 1996

For: IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO  
EYEGLASS TEMPLES

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 Asst. Commissioner of Patents and Trademarks  
 Washington, D.C. 20231

REISSUE APPLICATION TRANSMITTAL LETTER

Sir:

Enclosed herewith please find the application of Richard Hirschman and Chul Woo Shin for the reissue of their U.S. Patent No. 5,543,864 issued August 6, 1996, for "IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO EYEGLASS TEMPLES."

Enclosed herewith please find the following documents in the above-identified application for United States Reissue Letters Patent:

<u>1</u>	Page of Abstract
<u>10</u>	Pages of Specification
<u>40</u>	Numbered Claims Calculated as <u>40</u> Claims for Fee Purposes
<u>4</u>	Sheets of Drawing Containing Figures <u>1</u> to <u>11</u> No changes in the drawings, upon which the Original Patent was issued, are to be made. Therefore in accordance with 37 C.F.R. § 1.174, please find attached, in the size required for original drawings, a copy of the drawings from the Original Patent.
<u>XX</u>	Return-Addressed Post Card
<u>XX</u>	Assent of Assignee
<u>XX</u>	Certification of Assignee
<u>XX</u>	Order for Title Report
<u>XX</u>	Declaration and Power of Attorney
<u>XX</u>	Offer to Surrender Letters Patent
<u>XX</u>	Information Disclosure Statement

OFGS Check No. 62836, which includes the fee of \$765.00, calculated as follows:

Basic Filing Fee: . . . . .	\$ 770.00
Additional Filing Fees:	
Order for Title Report . . . . .	\$ 25.00
Total Number of Claims in Excess of 20, times \$22: . . . . .	440.00
Number of Independent Claims in Excess of 3, times \$80: . . . . .	240.00
One or More Multiple Dependent Claims: Total \$260. . . . .	
Total Filing Fees . . . . .	\$1,450.00
Total Filing Fee Reduced 50% for Small Entity: . . . . .	\$ 725.00

In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed, or if any additional fee during the prosecution of this case is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.

**EXPRESS MAIL CERTIFICATE**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee (mail label #TB832122379US) in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on January 9, 1997:

Dorothy Jenkins

*Dorothy Jenkins*  
Signature  
January 9, 1997

Date of Signature

SIW:MBD:arr

Respectfully submitted,

Steven I. Weisburd  
Registration No.: 27,409  
OSTROLENK, FABER, GERB & SOFFEN  
1180 Avenue of the Americas  
New York, New York 10036-8403  
Telephone: (212) 382-0700



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Appreciation

## 1

METHOD AND KIT FOR ATTACHING SIDE  
SHIELDS TO EYEGLASS TEMPLES.

CROSS-REFERENCE TO RELATED  
APPLICATIONS

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This is a continuing application of U.S. Ser. No. 08/320, 447, filed Oct. 11, 1994.

BACKGROUND OF THE INVENTION

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1. Field of the Invention

The present invention relates to an improved method for mounting safety shields onto eyeglass temples and a kit for carrying out that method.

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2. Description of the Related Art

Conventional safety spectacles include side safety shields which are removably affixed. However, the case often arises where the employers do not want the employees removing the safety shields.

20

In the situations where the employer prefers that the shields be permanently affixed the methods of attachment have been rivets, screws, lock-nuts or adhesives. Drilling the temples, which may be plastic or metal, and then securing the shield with a screw or rivet has various drawbacks. Cutting a hole through the temple weakens the temples and often the temples break during drilling.

25

Moreover, drilling the temples cannot be done on an "as needed" basis in the field, but must be done in an optical laboratory or where a drill press is readily available.

30

Affixing the shields by rivets or screws prevents manufacturers from designing safety spectacles having thinner and lighter temples. Employees are more likely to comply with eye protection requirements where the safety spectacles are more comfortable and fashionable.

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The extra drilling operations increase labor costs and opportunity for injury to the optical laboratory worker.

Another disadvantage with drilling or riveting the shields to the temples is that removal is awkward, requiring extra tools. The temples are weakened or broken during removal of the shields. At the least, the temple is left with an unsightly unaesthetic hole.

40

U.S. Pat. No. 3,505,679 discloses a pair of safety spectacles having removable side shields. Flanges of the side shield are snapped over the temple of the glasses. This is disadvantageous, as repeated placement and removal of the shields weakens the shield's flanges, and eventually the flanges will snap and the entire side shield must be replaced. Moreover, an employee can easily remove the shields, even if the employer requires the shields to be worn.

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U.S. Pat. No. 3,721,490 discloses side shields which are permanently fastened to a pair of eyeglasses without the use of screws or adhesives. However, the attachment means are formed integrally with the side shields. Thus, not only is removal difficult, but once the shields are removed, they are not designed to be used again.

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U.S. Pat. No. 3,165,754 teaches separate means for removably attaching the shields to temples of a pair of glasses. The attachment means comprise a support member having hooks for engaging a lens frame and a pair of sidewards extending support arms which contact the top and bottom surfaces of the hinge between the temples and lens frame. The attachment means must be connected to the eyeglass frame and temples by a screw. Thus, simple installation is not possible.

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## SUMMARY OF THE INVENTION

The present invention makes it possible to secure side shields to the temples of a pair of glasses in such a manner that the shields cannot easily be removed. In the preferred embodiment, the side shields are attached to the temples by a pin which "permanently" secures the side shields to the temple in the sense that the pin must be permanently deformed or broken (e.g., by cutting) in order to remove the side shields.

In accordance with the method of the present invention, a side shield is attached to the temple of an eyeglass frame by:

- placing the temple in a channel forming part of this side shield; and thereafter
- inserting a pin into both an opening formed in the side shield and into a slot formed in a member affixed to the temple to create a force fit between the temple, the channel and the pin which attaches the side shield to the temple.

In the preferred embodiment, the side shield is initially placed in its operative position before the pin is inserted into the opening and the force fit resulting from the insertion of the pin into the opening holds the side shield in the operative position.

The kit of the present invention comprises:

- a side shield having a longitudinally extending channel into which a longitudinally extending eyeglass temple may be inserted, said channel having an open lateral end through which said temple may be inserted and a supporting lateral wall against which said temple may be supported, said side shield further having an opening extending traverse to both said longitudinally extending channel and said supporting lateral wall;
- a pin adapted to be inserted into said opening so as to force said temple against said supporting lateral wall of said channel and to create a force fit between said side shield and said temple when said temple is located in said channel; and
- a member having a slot formed therein affixed to said temple to receive said pin and prevent said temple from freely moving longitudinally within the channel of said side shield.

## BRIEF DESCRIPTION OF THE DRAWINGS

For the purpose of illustrating the invention, there is shown in the drawing several forms which are presently preferred, it being understood, however, that the invention is not limited to the precise arrangements and instrumentalities shown.

FIG. 1 is a perspective view of a pair of glasses having safety shields mounted thereto using the kit of the present invention.

FIG. 2 is a detailed perspective view partially in section showing the manner in which the kit of the present invention can be mounted on eyeglass temples.

FIG. 3 is a sectional view taken along lines 3—3 of FIG. 2 before the pin of FIG. 1 has been used to attach the side shields of FIG. 1 to the temples of the eyeglass frame of FIG. 1.

FIG. 4 is a cross sectional view taken along lines 3—3 of FIG. 1, wherein the pin has been inverted into its operative position.

FIG. 5 is a side view of a pair of glasses onto which the safety shield has been mounted.

FIGS. 6 and 7 are detailed views showing a first modification of the present invention which prevents the side

shield from being moved longitudinally along the eyeglass temple.

FIGS. 8 and 9 are further detailed views showing a second modification of the present invention which prevents the side shield from being moved longitudinally along the eyeglass temple. 5

FIGS. 10 and 11 are further detailed views showing a third modification of the present invention which prevents the side shield from being moved longitudinally along the eyeglass temple. 10

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the drawings, wherein like numerals indicate like elements, there is shown in FIG. 1, a pair of eyeglasses 10 which have been made into safety glasses by the additional of side shields 12 coupled to the temples 14 of the eyeglass frames 15 in accordance with the preferred embodiment of the present invention. 15

The kit of the present invention makes it possible to add side shields to a standard eyeglass frame 15 on the job site. The kit includes a pair of side shields 12 and a pair of connecting pins 16 for coupling the side shields 12 to the temples 14. In the preferred embodiment, the side shields 12 wrap around the side and a portion of the top of the glasses 10. 20 25

A longitudinally extending channel 18 is formed in each side shield 12 as best shown in FIGS. 1-3. The channels 18 extend along a longitudinal axis and are adapted to closely receive a respective temple 14 of the eyeglass frame 15. Before the pin 16 is inserted into an opening 20 formed in the channel 18, the temple 14 sits loosely, but closely fitted, within the channel. See FIGS. 2 and 3. In the preferred embodiment, the channel 18 is formed integrally with the side shield 12. If desired, however, the channel 18 may be formed separately and connected to the side shield 12 by any appropriate means. 30 35

Four detents 22 are formed in the open lateral end of channel 18 to temporarily hold the temple 14 within the channel 18 before the side shield 12 is "permanently" attached to the temple 14 by insertion of the pin 16 into the opening 20. Since the space between detents 22 is smaller than the height of the temple 14 (as best shown in FIG. 3), 40 45 the temple is preferably inserted into the channel 18 in a position perpendicular to that illustrated in FIG. 3 and is then rotated into the position illustrated. Before the side shield 12 is "permanently" attached to the temple 14, it is placed in its operative position illustrated in FIG. 1. In this position, the front of eye shield 12 should be aligned with the front of the frame 15. Since the temple 14 fits loosely within the channel 18, the side shield 12 can easily be moved longitudinally along the temple 14 into the operative position. In the preferred embodiment, a lip 24 (FIG. 1) is formed on the front edge of the side shields 12 to partially cover the front of the eyeglass frame 15. Once the side shield 12 has been moved into the operative position, it is "permanently" affixed to the temple 14 by inserting pin 16 into the opening 20. 50 55 60

As best shown in FIG. 3, the pin 16 is preferably U-shaped and includes a pair of legs 26, 28 which depend from a common cross bar 30. In the preferred embodiment, the left or insertion leg 26 is longer than the right leg 28. The primary purpose of the right leg 28 is to partially close the opening 20 formed in the channel 18 once the pin 16 has been inserted into opening 20. The insertion leg 26 operates 65

as a wedge between the temple 14 and the side shield 12 and frictionally couples these elements together. Particularly, as the insertion leg 26 is moved into the opening 20 between the temple 14 and the side edges 36, 38 (see FIG. 3) of the side shield 12, the insertion leg 26 will force the temple 14 to the right, wedging it against the surfaces 40, 42 (see FIG. 2) of the channel 18. This captures the temple 14 within the channel 18 and makes it difficult to slide the channel 18 relative to the temple 14.

10 To assist in the insertion process, the distal end 32 of insertion leg 26 is formed with a bevel which prevents the end 32 from getting caught on the edge 34 (FIG. 3) of the side shield 12. In the preferred embodiment, the end 32 is formed with an angular bevel. A curved bevel could also be used.

15 In the preferred embodiment, the materials (preferably deformable plastic) of the side shield 12 and pin 16 as well as the size and shape of the channel 18 and insertion leg 26 are selected to ensure that the insertion leg 26 must be force fit into the opening 20 and will maintain a substantial force fit between the temple 14, the leg 26 and the supporting surfaces 40, 42 (FIG. 2) to make it difficult to remove the pin 16 from the opening 20 and also to make it difficult to slide the side shield 12 longitudinally along the temple 14. This will create an essentially "permanent" connection between the side shields 12 and the temples 14. Of course, the connection is not really permanent since the pin 16 can be removed from the opening, at least with the aid of a tool such as pliers, and since the pin can always be cut.

20

25 To improve the "permanent" nature of the coupling, the pin 16 is preferably performed with an angularly detent 44 which allows the pin 16 to be snap-fit to the opening 20 as the insertion leg 26 is inserted between the temple 14 and the surfaces 36, 38 of side shield 12. The beveled edge 45 of

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35 detent 44 permits the insertion leg 26 to be inserted fairly easily into the opening 20. Once the detent 45 has moved beyond the edge 46 of the side shield 12 (see FIG. 4). The top edge 47 of the bevel 44 snaps below the edge 46 and makes it difficult to remove the pin 16 from the opening 18.

40 While the pin of the preferred embodiment has a pair of legs 26, 28, it is the interaction between insertion leg 26, temple 14 and surfaces 36-42 which create the desired force fit connection. Accordingly, the leg 28 and cross bar 30 can be omitted if desired.

45 While the foregoing embodiment is satisfactory in most circumstances, it is possible for the wearer of the glasses to defeat the "permanent" nature of the connection by sliding the side shields 12 axially towards the rear of temple 14 as shown in FIG. 5. While the force fit created by the insertion of the pin into the opening will make it difficult to slide the side shields longitudinally along the temples 14, it is possible to do so with the use of significant force.

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55 In most eyeglass frames, the height of the temples reduces towards the ear piece 48. As a result, when the side shield is moved into the position shown in phantom in FIG. 5, the force fit connection between the pin 16, the temple 14 and the side shield 12 is significantly reduced making it possible to rotate the side shield 12 relative to the temple 14 and to remove the pin 16.

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65 In order to reduce this possibility, it is often desirable to provide additional means for preventing longitudinal movement of the side shields 12 along the temples 14. Three structures for achieving this result are illustrated in FIGS. 6 through 11.

In the embodiment of FIGS. 6 and 7, a thin notch 50 is milled into the temples 14 to receive the insertion leg 26 of

connecting pin 16. As the insertion leg 26 is moved into the hole 20 (the side shield 12 and its associated channel 18 are not shown in these figures), it is inserted into the notch 50 and finally rests within the notch 50 as shown in FIG. 7. As a result, the temple 14 is not free to move longitudinally within the channel 18. While a small groove is formed in the temple 14, this does not have the drawbacks of the prior art systems wherein a hole is drilled into the temple 14. Since only a small notch need be formed, the temple 14 is only slightly weakened. More importantly, there will be no unsightly hole in the temple if the side shields are removed since the notch 50 is formed in the side of the temple adjacent the wearer's head and is not seen when the glasses are worn.

In the embodiment of FIGS. 8 and 9 (again the side shield 12 and its associated channel 18 are not illustrated), the insertion leg 26 is inserted between a pair of projections 52 which prevent longitudinal movement of the temple 14 relative to the side shield 12. The projections 52 are preferably the heads of screws which are utilized to screw the temple 14 to the frame of the eyeglasses 10.

In the embodiment of FIGS. 10 and 11, a metal member 60 having a slot 62 formed therein is soldered or otherwise affixed to the temples 14 to receive the insertion leg 26 of a connecting pin 16. By providing for a separate member 60 with a slot 62 formed therein, it is not necessary to form any slots or holes in the temple 14 itself which would weaken the temple 14. Additionally, there will be no unsightly hole in the temple 14 if the side shields 12 are removed since the member 60 is located on the inside of the temple 14 adjacent the wearer's head and is not seen when the glasses are worn.

As the insertion leg 26 is moved into the hole 20 (the side shield 12 and its associated channel 18 are not shown in these figures), it is also inserted into the slot 62 of the member 60 and finally rests within the slot 62 as shown in FIG. 11. As a result, the temple 14 is not free to move longitudinally within the channel 18.

The present invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof and, accordingly, reference should be made to the appended claims, rather than to the foregoing specification, as indicating the scope of the invention.

What is claimed is:

1. A method of attaching a side shield to a temple of an eyeglass frame of the type which has a member with a slot formed therein coupled to said temple, said method comprising the steps of:

(a) placing said temple in a channel forming part of said side shield; and thereafter  
50  
(b) inserting a pin into both an opening formed in said side shield and said slot to create a force fit between said temple, said channel and said pin which attaches said side shield to said temple.

2. The method of claim 1, wherein said temple extends 55 along a longitudinal direction, said slot extending in a direction perpendicular to said longitudinal direction, said pin preventing said side shield from moving in said longitudinal direction.

3. The method of claim 2, wherein said member is formed 60 of synthetic material and said member is coupled to said temple.

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4. The method of claim 2, wherein said member is formed of metal and is soldered to said temple.

5. A kit for attaching a safety shield to a temple of a pair of eyeglasses, said kit comprising:

5      (a) a side shield having a longitudinally extending channel into which a longitudinally extending eyeglass temple may be inserted, said channel having an open lateral end through which said temple may be inserted and a supporting lateral wall against which said temple may be supported, said side shield further having an opening extending transverse to both said longitudinally extending channel and said supporting lateral wall;

10     (b) a member having a slot formed therein coupled to said temple; and

15     (c) a pin adapted to be inserted into both said opening and said slot so as to force said temple against said supporting wall of said channel and to create a force fit between said side shield and said temple when said temple is located in said channel.

20     6. The kit of claim 5, wherein said member is formed of synthetic material and said member is coupled to said temple.

25     7. The kit of claim 5, wherein said member is formed of metal and said member is soldered to said temple.

8. The kit of claim 5, wherein said member is rounded on respective sides.

25     9. The kit of claim 5, wherein said pin and said channel are formed of a deformable plastic material.

30     10. The kit of claim 5, wherein said pin has an insertion section adapted to be inserted into both said opening and said slot, an end of said insertion section being beveled to assist in the insertion of the insertion section into said opening and said slot.

35     11. The kit of claim 10, wherein the insertion section further has a detent formed thereon to create a snap fit between said insertion section and said side shield as said insertion section is inserted into said opening when said temple is located in said channel.

40     12. The kit of claim 5, wherein said pin is formed with a detent which enables said pin to be snap fit onto said side shields.

45     13. The kit of claim 5, wherein said pin is U-shaped.

14. The kit of claim 13, wherein said U-shaped pin has first and second legs adapted to straddle said temple.

50     15. The kit of claim 14, wherein a first one of said legs is beveled to assist the insertion of that leg into said opening and said slot.

55     16. The kit of claim 15, wherein a detent is formed on one of said legs.

17. The kit of claim 16, wherein said detent is formed on said first one of said legs.

18. The kit of claim 17, wherein said pin includes a pair of legs depending from a cross bar and wherein a detent is formed in one of said legs at a location adjacent said cross bar.

60     19. The kit of claim 5, wherein said slot is of a width approximately equal to the width of an insertion section of said pin.

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20. A method of attaching a side  
shield to a temple of an eyeglass frame,  
said temple having a recess formed  
5 therein, said method comprising the steps  
of:

10 placing said temple in a channel  
forming part of said side shield; and  
thereafter  
15 creating a friction fit between said  
channel and said temple to prevent said  
side shield from moving relative to said  
temple.

20 21. The method of claim 20, wherein  
said step of creating a friction fit  
between said channel and said temple  
comprises the step of causing relative  
movement between said channel and said  
recess.

25 22. The method of claim 21, wherein  
said step of creating a friction fit  
between said channel and said temple  
comprises the step of inserting a pin into  
both an opening formed in said side shield  
and said recess.

30 23. A method of attaching a side  
shield to a temple of an eyeglass frame,  
said method comprising the steps of:

35 (a) placing said temple in a  
channel forming part of said  
side shield; and thereafter  
(b) inserting a pin into an  
opening formed in said side  
shield such that a friction  
fit is obtained between said  
temple and said channel.

40 24. The method of claim 23, wherein  
said temple extends along a longitudinal  
direction, said slot extending in a  
direction perpendicular to said  
45 longitudinal direction, said pin  
preventing said side shield from moving in  
said longitudinal direction.

50 25. The method of claim 24, wherein  
said member is formed of synthetic

material and said member is coupled to  
said temple.

5       26. The method of claim 24, wherein  
said member is formed of metal and is  
soldered to said temple.

10      27. A kit for attaching a safety  
shield to a temple of a pair of  
eyeglasses, said temple having a recess  
formed therein, said kit comprising: a  
side shield having a channel into which  
said temple may be inserted, said channel  
defined by first and second spaced apart  
walls and a third wall formed on said side  
shield, said first and second walls having  
at least one leg portion depending  
therefrom, said at least one leg portion  
adapted to force said temple against said  
third wall of said channel and to create a  
friction fit between said side shield and  
said temple when said temple is disposed  
in said channel.

25      28. A kit for attaching a safety  
shield to a temple of a pair of  
eyeglasses, said temple having a slot  
formed therein, said kit comprising:

30      (a)    a side shield having a  
longitudinally extending  
channel into which a  
longitudinally extending  
eyeglass temple may be  
inserted, said channel having  
an open lateral end through  
which said temple may be  
inserted and a supporting  
lateral wall against which  
said temple may be supported,  
said side shield further  
having an opening extending  
transverse to both said  
longitudinally extending  
channel and said supporting  
lateral wall; and

35      (b)    a pin adapted to be inserted  
into both said opening and  
said slot so as to force said  
temple against said supporting  
wall of said channel and to

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create a force fit between  
said side shield and said  
temple when said temple is  
located in said channel.

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29. The kit of claim 28, wherein  
said member is formed of synthetic  
material and said member is coupled to  
said temple.

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30. The kit of claim 28, wherein  
said pin and said channel are formed of a  
deformable plastic material.

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31. The kit of claim 28, wherein  
said pin has an insertion section adapted  
to be inserted into both said opening and  
said slot, an end of said insertion  
section being beveled to assist in the  
insertion of the insertion section into  
said opening and said slot.

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32. The kit of claim 31, wherein  
the insertion section further has a detent  
formed thereon to create a snap fit  
between said insertion section and said  
side shield as said insertion section is  
inserted into said opening when said  
temple is located in said channel.

25

33. The kit of claim 28, wherein  
said pin is formed with a detent which  
enables said pin to be snap fit onto said  
side shields.

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34. The kit of claim 28, wherein  
said pin is U-shaped.

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35. The kit of claim 34, wherein  
said U-shaped pin has first and second  
legs adapted to straddle said temple.

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36. The kit of claim 35, wherein a  
first one of said legs is beveled to  
assist the insertion of that leg into said  
opening and said slot.

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37. The kit of claim 36, wherein a  
detent is formed on one of said legs.

50

38. The kit of claim 37, wherein  
said detent is formed on said first one of  
said legs.

5       39. The kit of claim 38, wherein  
said pin includes a pair of legs depending  
from a cross bar and wherein a detent is  
formed in one of said legs at a location  
adjacent said cross bar.

10      40. The kit of claim 28, wherein  
said slot is of a width approximately  
equal to the width of an insertion section  
of said pin.

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01/09/97

**ABSTRACT**

A method for mounting safety shields onto eyeglass temples and a kit for carrying out that method. A temple of an eyeglass frame is placed in a channel forming part of a side shield thereafter, a pin is inserted into an opening formed in the side shield to create a force fit between the temple, the channel and the pin which attaches the side shield to the temple. The side shield is placed in its operative position before the pin is inserted into the opening and the force fit resulting from the insertion of the pin into the opening holds the side shield in its operative position. The kit includes a side shield having a longitudinally extending channel into which a longitudinally extending eyeglass temple may be inserted. The channel has an open lateral end through which the temple may be inserted and a supporting lateral end against which the temple may be supported. The side shield further includes an opening extending transversely to both the longitudinal direction and the supporting lateral wall. A pin is adapted to be inserted into the opening so as to force the temple against the supporting end of the channel to create a force fit between the side shield and the temple when the temple is located in the channel. A member having a slot formed therein is affixed to the temple to receive the pin and prevent the temple from moving longitudinally within the channel of the side shield.

71548 U.S. PTO



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

01/09/97

In re Reissue Application of

Richard Hirschman et al.

Date: January 9, 1997

Reissue of U.S. Patent No.: 5,543,864

Patented: August 6, 1996

For: IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO  
EYEGLASS TEMPLESAsst. Commissioner of Patents and Trademarks  
Washington, D.C. 20231REISSUE APPLICATION BY THE INVENTORS,  
OFFER TO SURRENDER  
PURSUANT TO 37 CFR §1.178

Sir:

The undersigned applicants of the accompanying reissue application for the reissue of letters patent entitled "IMPROVED METHOD AND KIT FOR ATTACHING SIDE SHIELDS TO EYEGLASS TEMPLES", Patent No. 5,543,864 granted to Richard Hirschman, et al. on August 6, 1996, of which Hudson Optical Corporation is now sole owner by assignment, and on whose behalf and with whose assent the accompanying application is made, hereby offers to surrender said letters patent.

Filed herewith is an order for a title report as required in such applications.

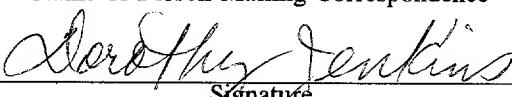
Date: December 23, 1996
  
 Richard Hirschman
Date: December 19, 1996
  
 Chul Woo Shin

## EXPRESS MAIL CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee (mail label #TB832122379US) in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on **January 9, 1997**:

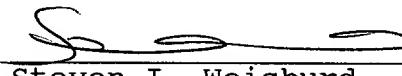
Dorothy Jenkins

Name of Person Mailing Correspondence

  
 Signature  
 January 9, 1997

Date of Signature

Respectfully submitted,

  
 Steven I. Weisburd

 Registration No.: 27,409  
 OSTROLENK, FABER, GERB & SOFFEN  
 1180 Avenue of the Americas  
 New York, New York 10036-8403  
 Telephone: (212) 382-0700  
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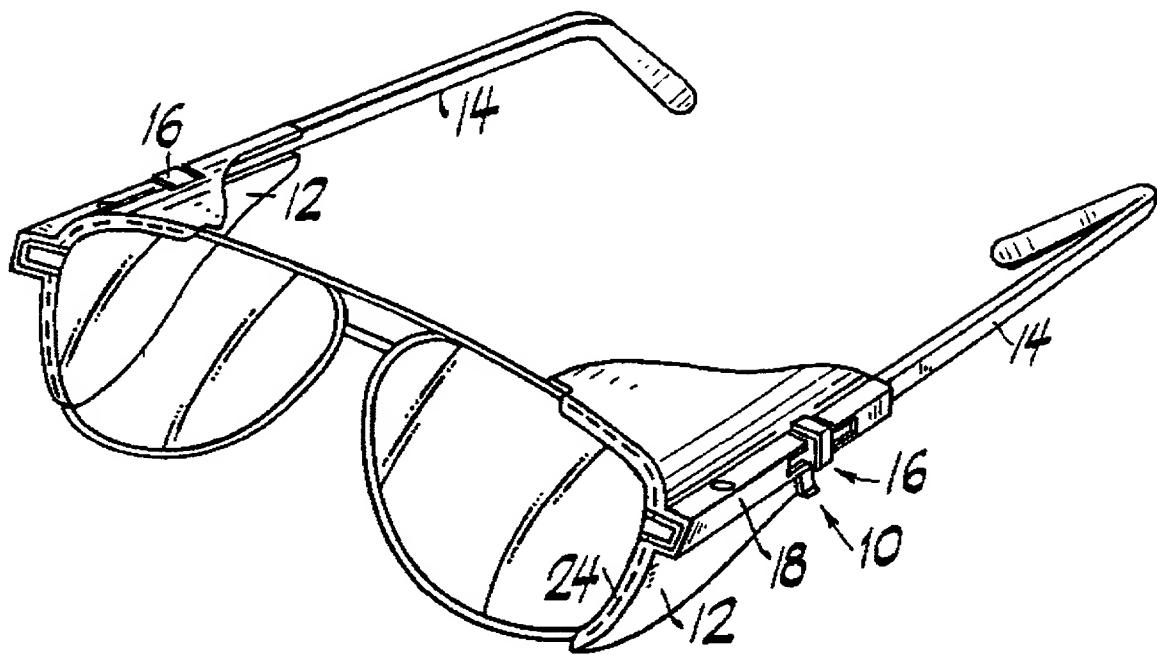


FIG. 1

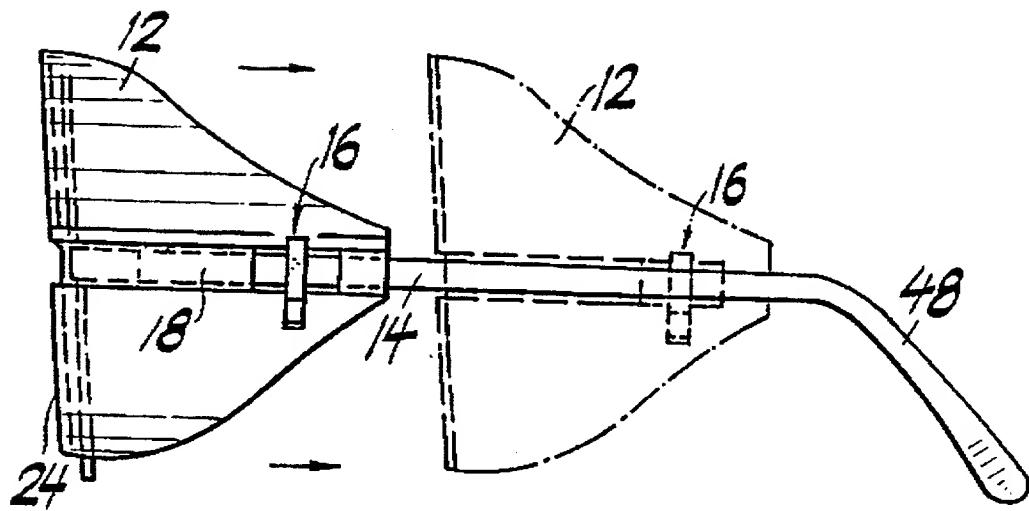
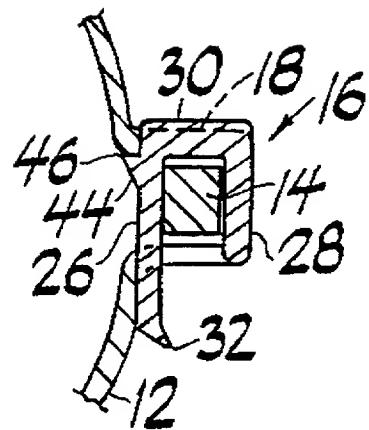
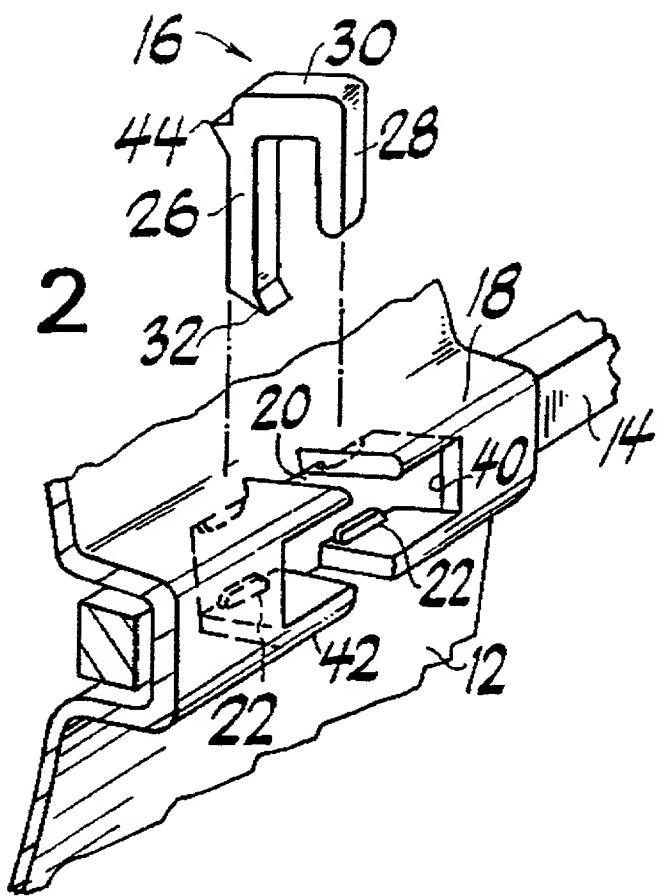
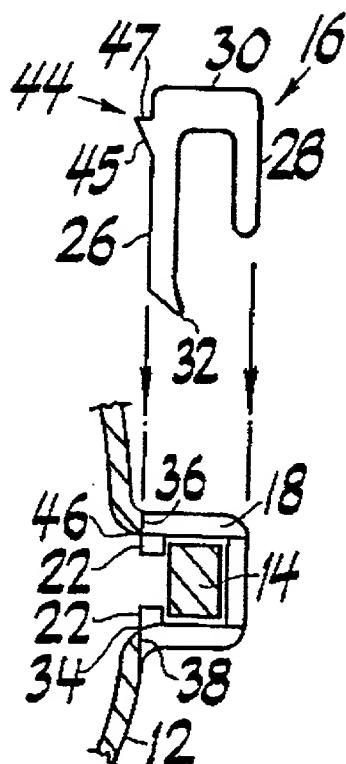
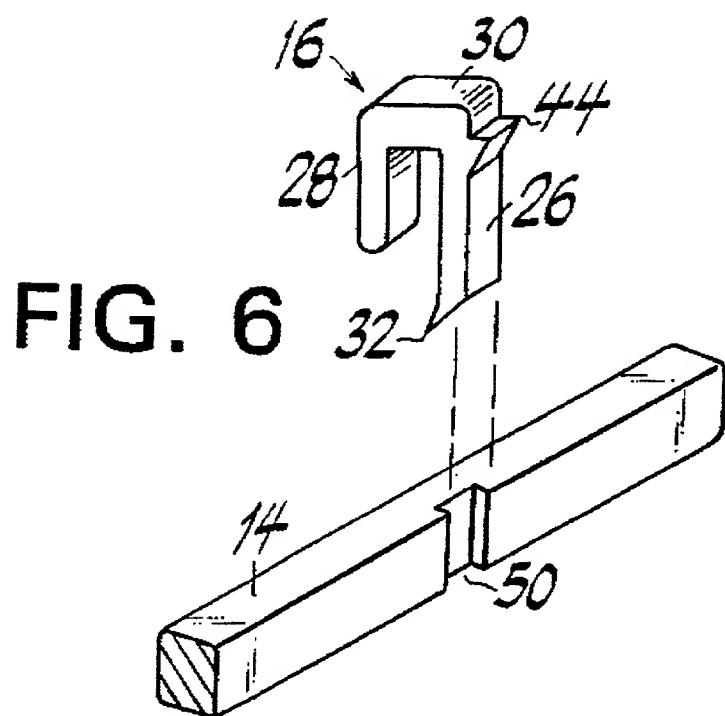
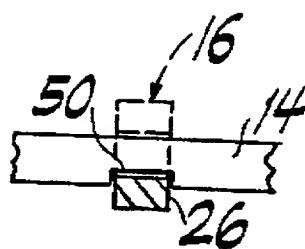


FIG. 5

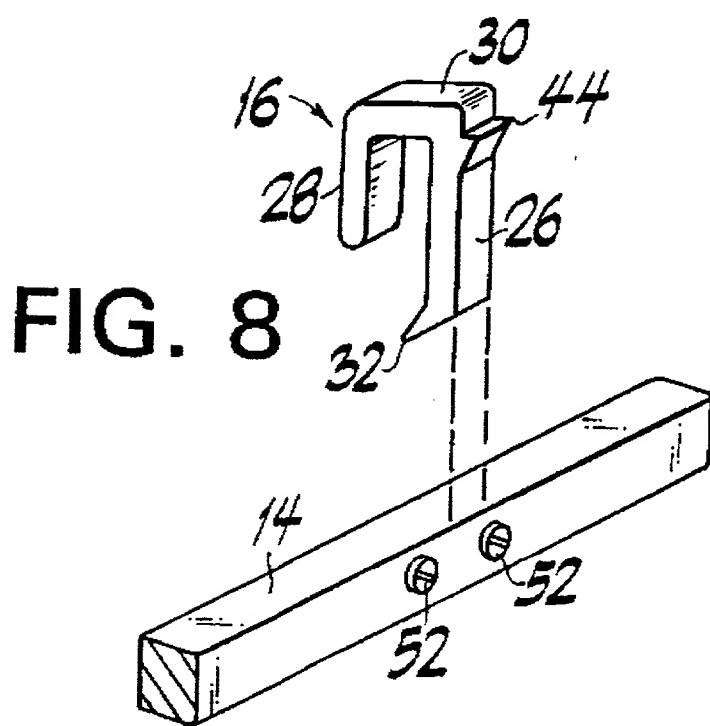
**FIG. 2****FIG. 4****FIG. 3**



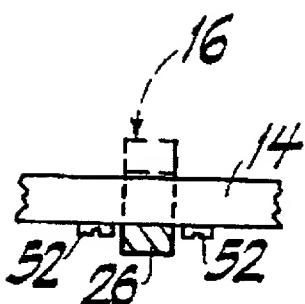
**FIG. 6**



**FIG. 7**



**FIG. 8**



**FIG. 9**

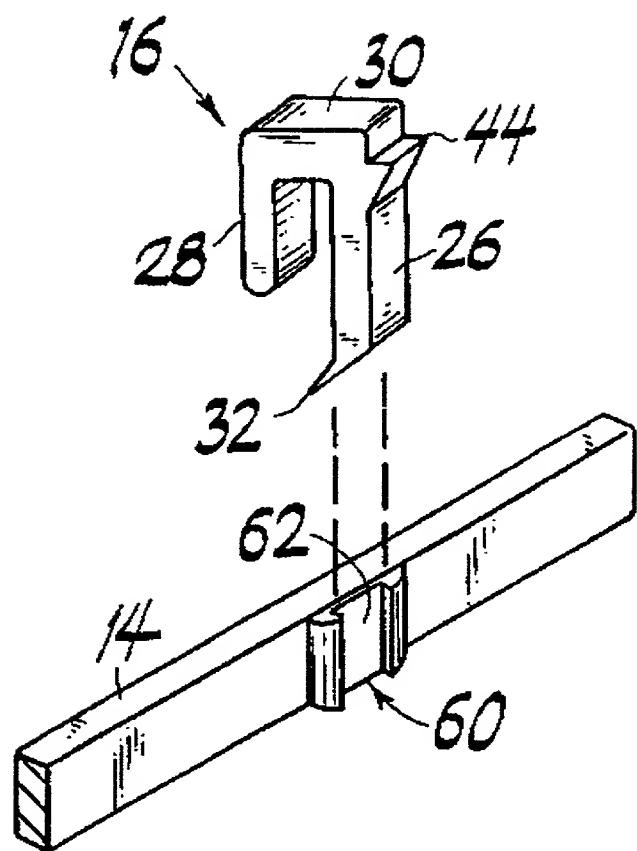


FIG. 10

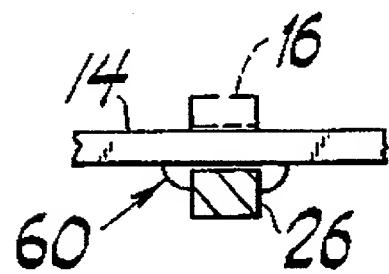


FIG. 11